

ISSN: 1750-9823 Vol.2 (2008) No.2 June

England, UK www.SSCI.org.uk

International Journal of **Sports Science and Engineering**

Edited by International Committee of Sports Science & Engineering, WAU Published by World Academic Union (World Academic Press)

Academic House, 113 Mill Lane, Wavertree Technology Park, Liverpool, L13 4AH, UK www. World Academic Union .com; www. World Academic Press .com

CONTENTS

- 067. Punching Bag With Speed and Accuracy Gauge Ralph Robin Cacacho, Frederick Oyas, John Paul Priolo, Geuel Yasis, Winston Dereje
- 072. Entropy Coefficient Method to Evaluate the Level of Sustainable **Development of China's Sports** Wei Liu, Jin Cui
- 079. Design of a Wireless Scoring System for Fencing Using RFID **Technology** Joseph Anthony Alvarez, Michael Victor Cristobal, Marvin Trevor Gamalinda, Anthony Malino and Joseph Miguel
- 087. A New Methodology for Three-dimensional Dynamic Analysis of **Whole Body Movements** Yanxin Zhang and Simon M. Hsiang
- **Effect of Hot Environment on Repetitive Sprint Performance** and Maximal Accumulated O2 Deficit of Cyclists Asok Kumar Ghosh +, Tengku Adnan Tengku Abdullah, Bal Kishan
- 101. Prevalence of Overweight and Underweight among Iranian **High-school Students** Farhad Rahmani-Nia, Nader Rahnama and Effat Bambaeichi
- 107. A Study of the Impact of Sepaktakraw Balls on the Head Zahari Taha, Iskandar and Hilma
- 111. Effects of a Resistance Training Programme on Isokinetic Peak Torque and Anaerobic Power of 13-16 Years Old Taekwondo **Athletes**

Woo Mei Teng, Chen Chee Keong, Asok Kumar Ghosh and Visvanathan Thimurayan

123. Large-scale Cluster Analysis of Elite Male and Female **Swimmers'Race Patterns** Ilene Chen, Ming-Yang Chen, Craig Jin, Hong Yan

Bibliographic

ISSN: 1750-9823 (print), 1750-9831 (online), Quarterly

Edited: International Committee of Sports Science & Engineering, WAU

Published by World Academic Union (World Academic Press)

Publisher Contact: Academic House, 113 Mill Lane

Wavertree Technology Park Liverpool L13 4AH, England, UK Email: publishing@wau.org.uk publishermail@gmail.com

U R L: www.World Academic Union.com

INTERNATIONAL JOURNAL OF SPORTS SCIENCE AND ENGINEERING

Editorial office:

S-SC/ Editorial office

Academic House, 113 Mill Lane, Wavertree Technology Park Liverpool L13 4AH, England, UK Email: editor@SSCI.org.uk China editorial office:

S-SCI, Faculty of Physical Education Science

Qufu Normal University Qufu, 273165, P. R. CHINA Email: china@SSCI.org.uk

Editorial Board (Contact email: editor@SSCl.org.uk)

Martin P Ansell

Sports & Materials Group Department of Mechanical Engineering

University of Bath, ENGLAND

Arnold Baca

Department of Biomechanics, Kinesiology and

Applied Computer Science Faculty of Sport Science University of Vienna, AUSTRIA

Mike Caine Sports Technology

Loughborough University, UK

James J. Cochran

Department of Marketing and Analysis College of Administration and Business Louisiana Tech University, USA

Stephen Dobson

Department of Economics (Sport) University of Otago, NEW ZEALAND

Clement Fasan

Physical and Health Education Dept

Faculty of Education

University of Lagos, NIGERIA

Terry R. Haggerty

Faculty of Kinesiology, UNB

University of New Brunswick, CANADA

John Hammond

Department of Sport, Coaching and Exercise

Science

University of Lincoln, Lincoln, UK

Youlian Hong

Department of Sports Science and Physical

Education

The Chinese University of Hong Kong

Shatin, HONG KONG

Mont Hubbard

Sports Biomechanics Laboratory Mechanical and Aeronautical Engineering University of California, Davis, USA

Mike Hughes School of Sport

University of Wales Institute, WALES

Yong Jiang (Editor in Chief)

Centre of Sports Mathematics and Engineering

Faculty of Science

Nanjing University of Science and Technology

P. R. CHINA

JiChun Jin

Department of Sports Biomechanics Beijing Sport University, P. R. CHINA

Larry Katz

Faculty of Kinesiology

University of Calgary, CANADA

Mark King

School of Sport and Exercise Sciences Loughborough University, UK

Ruud H. Koning Department of Economics

University of Groningen, NETHERLANDS

School of Information Technology Bond University, AUSTRALIA

Kieran Moran

Sports Science and Health Department Dublin City University, IRELAND

R Hugh Morton

Email: editor@SSCI.org.uk

Centre for Studies in Sport and Exercise, Institute of Food, Nutrition and Human Health, Massey University, NEW ZEALAND.

Jürgen Perl

Institute of Computer Science University of Mainz, GERMANY

Nader Rahnama

Faculty of PE and Sports Science

Isfahan University Isfahan, IRAN

Philip Scarf

Centre for Operational Research and Applied

Statistics

University of Salford, UK

Elmer Sterken

Department of Economics (Sports)

University of Groningen The NETHERLANDS

JinHai Sun

School of Physical Education Science Qufu University, P. R. CHINA

QingZhu Sun

School of Sports Science

Nanjing Normal University, P. R. CHINA

Jiuping Xu

School of Business and Administration Sichuan University, P.R. CHINA

ZhongPing Wang Dept. Physical Education

Nanjing University of Science and Technology

P. R. CHINA

Contact Address of Editorial Committee

S-SCI, Faculty of Sports Science Nanjing University of Science and Technology Nanjing, 210094, P. R. CHINA **Secretaries**

Mr. Qi Chen, Mr. Xiangchen Li China Institute of Sports Science

11 Tiyuguan Road, Beijing, 100061, P. R. CHINA

Contribution enquiries and submitting

Please send the file of Word, PDF format of the manuscript to the editorial office at editor@SSCI.org.uk or contact editors above directly.

For more detail to submit papers please visit www.SSCI.org.uk

Subscription

For printed-journal (GBP 272 for one year): please contact publisher by mail or email at the address on the first page.

For free e-journal: please visit www.SSCI.org.uk